

5-75. If the cable can be subjected to a maximum tension of 300 lb, determine the maximum force P which may be applied to the plate. Compute the x , y , z components of reaction at the hinge A for this loading.

$$\Sigma M_A = 0; \quad 3(P) - 300(9) = 0$$

$$P = 900 \text{ lb} \quad \text{Ans}$$

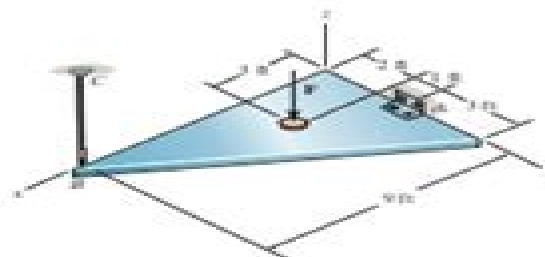
$$\Sigma F_x = 0; \quad A_x = 0 \quad \text{Ans}$$

$$\Sigma F_y = 0; \quad A_y = 0 \quad \text{Ans}$$

$$\Sigma F_z = 0; \quad -900 + 300 + A_z = 0; \quad A_z = 600 \text{ lb} \quad \text{Ans}$$

$$\Sigma M_{x_0} = 0; \quad M_{x_0} + 900(1) - 3(300) = 0; \quad M_{x_0} = 0 \quad \text{Ans}$$

$$\Sigma M_{y_0} = 0; \quad M_{y_0} = 0 \quad \text{Ans}$$



5-76. The member is supported by a pin at A and a cable BC . If the load at D is 300 lb, determine the x , y , z components of reaction at the pin A and the tension in cable BC .

$$T_{BC} = T_{BC} \left(\frac{3}{5}i + \frac{4}{5}j + \frac{3}{5}k \right)$$

$$\Sigma F_x = 0; \quad A_x + \left(\frac{3}{5} \right) T_{BC} = 0$$

$$\Sigma F_y = 0; \quad A_y + \left(\frac{4}{5} \right) T_{BC} = 0$$

$$\Sigma F_z = 0; \quad A_z - 300 + \left(\frac{3}{5} \right) T_{BC} = 0$$

$$\Sigma M_A = 0; \quad -300(10) + \left(\frac{3}{5} \right) T_{BC} (10) = 0$$

$$\Sigma M_{x_0} = 0; \quad M_{x_0} - 300(10) + \left(\frac{3}{5} \right) T_{BC} (10) = 0$$

$$\Sigma M_{y_0} = 0; \quad M_{y_0} - \left(\frac{4}{5} \right) T_{BC} (10) + \left(\frac{3}{5} \right) T_{BC} (10) = 0$$

Solving,

$$T_{BC} = 1.00 \text{ kip} \quad \text{Ans}$$

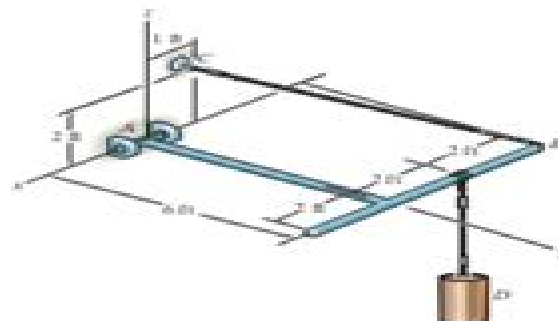
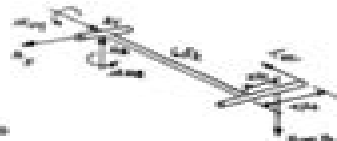
$$A_x = -600 \text{ lb} \quad \text{Ans}$$

$$A_y = 800 \text{ lb} \quad \text{Ans}$$

$$A_z = 0 \quad \text{Ans}$$

$$M_{x_0} = -600 \text{ lb} \cdot \text{ft} \quad \text{Ans}$$

$$M_{y_0} = -900 \text{ lb} \cdot \text{ft} \quad \text{Ans}$$



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